

## ALTO HEAVY DUTY DOUBLE WIDTH STEPPED TOWER Aluminium Access Tower





## **Instruction Manual BS EN 1004-2:2021** The ALTO HD Linked Towers are certified to BS 1139-6:2022

## **3T - Through The Trapdoor Method**



Lakeside Industries Ltd

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# Introduction

Please read these instructions carefully and ensure that you fully understand all of the information contained herein. All of the information in this document is vital for the safe utilisation of your Alto Heavy Duty Tower in Stepped Tower applications.

These instructions only cover the assembly of this configuration of equipment, which is designed primarily for construction and maintenance tasks in a fixed position in tiered floor situations at platform heights of between 3m and 12m. All Alto Access products are professional quality engineered equipment designed primarily with safety in mind and meet or exceed all standards, recommendations and guidelines. Used properly, Alto access equipment will keep you safe when working at height.

This manual contains all of the information necessary to correctly assemble your Alto Heavy Duty mobile access tower equipment for this application in accordance with BS 1139-6:2022 and incorporates all of the requirements of the PASMA 3T method of assembly as endorsed by the HSE.

This manual should be used in conjunction with your Risk Assessment and Method Statement and in line with the Work at Height Regulations 2005 which place an obligation on employers to eliminate or minimise risks. This manual must be made available to the user/assembler at all pertinent times.

A Risk Assessment and Method Statement must be undertaken before installation commences and should include the relevant stabilisation to be applied to the specific structure being built in line with the guidance contained in this manual.

Only competent and qualified personnel should undertake erection, dismantling or alteration, organisation, planning or supervision of mobile access towers. In the case of any doubt, sufficient relevant additional training must be given beforehand to ensure safe use. For further information on the use of mobile access towers consult PASMA (www.pasma.co.uk; Tel +44 (0) 345 2 30 4041).

For any additional technical information or specific advice please contact the manufacturer Lakeside Industries Limited Tel: +44 1527 500577 or Email: sales@altoaccess.com.

# Certifications

The Alto Heavy Duty Tower is a mobile access tower certified to BS EN 1004-1:2020 Class 3. These instructions cover applications outside the scope of BS EN 1004-1:2020, within the scope of BS 1139-6:2022 to ensure that the configuration of the equipment meets the relevant requirements. This tower is manufactured in our ISO 9001 accredited facility. This manual complies with BS EN 1004-2:2021.

# Maximum Safe Working Loads

The safe working load of the tower is 3,000 kg including its own weight as it is to be assembled on base jacks. The maximum leg load imposed by the tower on its supporting surface is 750 kg when loaded to its maximum safe working load. The tower is a Class 3 tower.

The maximum safe working load of any individual platform unit within the tower is 324 kg evenly distributed.

The maximum safe uniformly distributed working load which may be placed on the working platform of the tower is 648 kg per bay over all the working platforms in use.

The maximum number of working platforms allowed in this configuration is 1.

The maximum number of operatives permitted on the tower during use is 2.

The maximum number of operatives permitted on the tower during assembly and dismantling is 2.

The maximum number of operatives permitted on any one platform unit is 2.

The maximum number of people on a working platform level permitted to simultaneously exert a horizontal load of 0.3 kN is one.

If higher loadings are required, contact your supplier or the manufacturer - Lakeside Industries Limited, for advice. Tel: +44 1527 500577 or Email: sales@altoaccess.com.

## **Inspection Care & Maintenance**

Alto Access equipment is designed and manufactured to the highest standards in the industry and is stronger, more robust and safer than any comparable competitor product. Properly cared for, it will give a long and productive service life.

Inspection and maintenance guidance is published by the manufacturer for Alto HD equipment. This may be found here: www.altoaccess.com/assets/inspection\_hd.pdf

ALTO HD Tower System equipment should not be modified in any way and should only be repaired by the manufacturer - Lakeside Industries Ltd - or by authorised agents. If it is suspected that equipment has been damaged, modified or repaired by any other provider, the equipment should be quarantined and returned to Lakeside Industries Ltd for free inspection. No liability will be accepted in relation to equipment that has been subjected to unauthorised modification or repair.

ALTO HD Tower System equipment is a robust product designed to operate in the construction industry

environment. However, misuse or mishandling (including dropping or overloading or otherwise incorrectly using components) risks impairing the structural integrity of the components.

Components should be handled with care and stacked and secured safely whilst in transit.

Never use any equipment which is damaged, has parts missing or is improperly assembled.

# Safety

- This information shall be available at the location of use of the prefabricated tower scaffold.
- This prefabricated tower scaffold shall only be used according to this information.
- A risk assessment and method statement must be prepared sufficient to ensure the safe assembly, use and dismantling of a stepped tower structure appropriately stabilised and the elimination or minimisation of all consequent risks.
- Check that all of the necessary components, tools and equipment for the particular tower configuration to be built are on site, undamaged and functioning correctly. Damaged/incorrect components must not be used.
- BS 1139-6:2022 tower applications may only be used with 3T Alto towers. BS 1139-6:2022 tower applications may not be created using Advance Guard Rail (AGR) towers.
- This is a static tower. These instructions only cover the assembly of this specific structure on base jacks. If a mobile tower structure is required, contact the manufacturer Lakeside Industries Limited for advice Tel: +44 1527 500577 or Email: sales@altoaccess.com. This tower is not to be moved when built.
- Check that the surface on which the tower is to be located is capable of supporting the tower and its payload. Check that the level and slope of the ground do not render the location unsafe for the purposes of assembling, using and dismantling the tower.
- Beware obstructions when assembling, altering and dismantling the tower.
- When working outdoors, the weather forecast shall be taken into account before assembly, use and dismantling.
- Platforms must be installed with vertical distances between them not exceeding 2.1m when assembling and dismantling.
- Towers must always be climbed from the inside using the built in ladders (or Alto stair units if applicable). If the work carried out from the tower requires frequent carrying of equipment and materials up or down the tower, an Alto stair tower should be used in preference to a ladderspan tower.
- The tower must be levelled when erected using the adjustable jack legs.

- Two or more persons are required for the safe erection and dismantling of this tower.
- Always comply with the Work at Height Regulations 2005 when erecting, dismantling & using the tower.
- When lifting components, tools or materials, always use reliable lifting equipment and fastening methods and always lift from within the footprint of the tower structure to prevent risk of the tower overturning.
- Users must be aware of the effects of horizontal and vertical loads on the structure when using the tower which may impair the stability of the tower. Examples would be loads resulting from work on an adjacent structure or wind loads which may be increased by tunnelling effects around adjacent buildings.
- Beware live electrical installations, cables, moving machinery or other obstructions when erecting, dismantling or using the tower. The tower is a conductive metallic structure.
- Do not use boxes, ladders or other items to gain additional height.
- Do not stand on guard rails for any reason.
- If the tower is to be used in connection with hoisting arrangements, this requires specific advice from the manufacturer to ensure safety. Contact the manufacturer Lakeside Industries Limited for advice on loadings Tel: +44 1527 500577 or Email: sales@altoaccess.com.
- Prefabricated tower scaffolds in accordance with this standard are not designed to be lifted or suspended.
- When fitting platforms always engage wind latches.
- Fit guard rails to all Platforms.
- Fit toe boards to all Working Platforms.
- Every erected tower must be inspected at least every seven days and any tower which has been left unattended should be inspected before use to ensure that:
  - 1. No components have been removed or relocated incorrectly;
  - 2. The tower is still vertical; and
  - 3. No environmental or other factors have arisen which will influence safe use of the tower.
  - 4. the applied stabilisation methods and devices are still correctly positioned and operating effectively.
- Alto Access Products recommends the use of the PASMA TowerSure inspection system. For more information, please visit: pasma.co.uk/towersure.
- This tower is not to be sheeted.
- Alterations to the prefabricated tower are only permitted where they are shown in these instructions.
- User training courses cannot be a substitute for instruction manuals and assembly, use and dismantling plans but can only complement them.

- Only the components specified in this information shall be used.
- Damaged or incorrect components shall not be used.
- Prefabricated tower scaffolds designed in accordance with this standard are not anchor points for personal fall arrest equipment.
- Working is only permitted on a platform with a complete side protection including guardrails and toeboards.
- In the event that an alteration to the prefabricated tower scaffold design is required, approval from the supplier and/or designer shall be obtained and a revised instruction manual or assembly, user and dismantling plan created.
- When a prefabricated scaffold tower is used as a means of access to another place it shall:
  - » Be built on base plates
  - » Be tied in to the adjacent structure with ties of sufficient number and capacity to cope with a horizontal load of 10% of the maximum UDL of the working platform i.e. 2 kN.
  - » Be positioned so that any horizontal gap between the platform of the prefabricated scaffold tower and the place being accessed is no greater than 25 mm; and
  - » Be positioned so that the upper surface of the platform and surface which is being accessed are vertically aligned within a tolerance of ±25 mm.
  - » Means of protection shall be removed only for the time and to the extent necessary to gain access or egress or for the performance of a particular task and shall be replaced as soon as practicable.
  - » Attention is drawn to the Work at Height Regulations 2005 Schedule 1, Schedule 2 Regulation 5 and Schedule 3 Part 1 Regulation 5.
  - » Provision shall be made to prevent falls not only from the prefabricated tower scaffold, but also from the adjacent structure.
  - » The safety of persons once they have transferred to the adjacent place shall be taken into account as this now becomes a place of work at height.
  - The strength of the adjacent place shall be assessed to verify that it is safe to step on to (e.g. not a fragile surface) and is a suitable and a safe place for work with adequate collective protection or other fall prevention measures.
  - » A prefabricated tower scaffold shall not be used as an anchor point for personal fall protection or work positioning equipment. They are not designed for this purpose even when tied to a supporting structure.
  - » A prefabricated tower scaffold shall not be used as a means or element of edge protection. They are not designed or suitable for this purpose even when tied to a supporting structure. Edge protection shall be designed and installed in accordance with BS EN 13374.

# Wind Speeds

The weather forecast must be taken into account before assembly, use and dismantling. Persons using or responsible for towers must beware of the effect of wind on the structure. Wherever possible, as a precaution, it is advisable to tie the tower in to a rigid structure if it is to be used where it is exposed to potential windy conditions. Users should beware the potential tunnelling effect of open ended or unclad buildings and narrow openings between buildings. We recommend that the use of the tower is discontinued in conditions where the wind speed is above 17mph (force 4).

WIND DESCRIPTION	BEAUFORT SCALE	AVERAGE SPEED	INFORMATION
Medium Breeze	4	13-17 mph	Safe to work on tower.
Strong Breeze	6	25-31 mph	Tie the tower to a solid structure. Do not work on tower.
Gale Force	8	39-46 mph	Towers must be dismantled. Towers must not be assembled.

# Tying In

If the tower is to be tied in, the following information is relevant:

- This prefabricated tower scaffold has been designed to be properly secured to a suitable adjacent supporting structure capable of withstanding the forces that will be imposed upon it by the attachment of the tower. Devices for securing the tower must be simultaneously rigid in both tension and compression and capable of withstanding and transmitting the loads imposed by the tower to the supporting structure.
- When used, select and install anchors in concrete and masonry must be selected and installed in accordance with BS 8539.
- Scaffold couplers and tubes used for tying in must comply with BS EN 74-1:2005 and BS EN 12811-2:2004 respectively.
- For more information on stabilisation by tying in, see separate guidance documentation issued by the manufacturer.
- If ballast is necessary, it must be secured in position and made of rigid materials such as steel or concrete, but excluding liquids or granular materials.
- If users consider that ballast may be necessary, contact the manufacturer Lakeside Industries Limited for advice on quantities and locations. Tel: +44 1527 500577 or Email: sales@altoaccess.com.

# **Erecting & Dismantling the Tower**

All BS 1139-6:2022 tower structures using Alto HD equipment must be built and dismantled in accordance with the step by step instructions set out below and having regard to the working at height regulations and Health & Safety legislation.

## **3T Method Explained**

The "3T" or "through the trapdoor" method is one of the two permitted ways of assembling a tower without the assembler being at risk of falling. This tower is a 3T tower.

#### Step 1:

As each new level of platform is installed, the operative takes up a working position in the trap door of the platform, standing on the ladder and leaning back against the edge of the trapdoor aperture.



#### Step 2:

From this position the operative fits the horizontal braces 500mm and 1000 mm above the platform level (i.e. on the first and second available rungs). If the far end of the guardrail braces don't fully engage when they are put in place, the operative fully engages it when first climbing up onto the platform. This process ensures that operatives never have to stand on an unguarded platform.



## Frames

Almost all linked tower structures compromise alternating "tower" and "bridge" sections. In Alto structures "odd" number bays are generally tower sections.

It is important to understand which bays are towers and which are bridges for the following reason.

Frames must always be assembled with the offset conical head pointing inwards on "tower" bays.





## Braces

All braces are fitted with spring loaded pins that automatically lock the brace into position when attached to a tower. Brace hooks **must** be located either over the rung screw heads, between 2 screw heads or between the frame upright and a screw head to prevent lateral movement.

Diagonal braces **must** always be located with the claw opening facing down. Horizontal braces must be located with the claw facing either down (on the rung) or outwards (if on the upright).



## **Stabilisation**

Stabilisers should always be attached to the tower so as to maximise the base area of the tower structure. Set the stabilisers so they form a square around the tower as per the diagram below. The correct size stabilisers **must** always be used - see component schedule for details.



#### **ADDITIONAL STABILISATION**

This manual covers stepped towers which are built as free-standing structures up to 7.5m using standard stabilisers. Towers more than 7.5m tall must be correctly tied in. The effectiveness of stabilisers is, by definition a function of the increase in base size which they create and their strength in compression. Where additional stability is required for any reason, it may be possible to supplement the stabilisers by utilising one or more of the following:

- a compliant pattern of tying in using appropriate materials and anchors
- additional stub bracing set against adjacent immovable structures
- larger stabilisers created using scaffold tube and standard couplers
- buttress towers

These solutions are outside the scope of standard stepped tower builds and users must contact the manufacturer Lakeside Industries Limited for advice on possible alternative solutions. Tel: +44 1527 500577 or Email: sales@altoaccess.com.

Alto HD stepped towers covered by this instruction manual which are more than 7.5m tall, must never be built as free-standing structures. Suitable stability solutions must be used. The following points must be observed:

- Never build towers without having adopted and correctly installed the permitted stability solution.
- The permitted stability solution is to securely tie the tower into an adjacent rigid structure capable of withstanding the forces that will be imposed upon it by the attachment of the tower.
- A Risk Assessment and Method Statement must be undertaken before installation commences and should include the relevant tying-in method and tying-in locations to be applied to the specific structure being built in line with the guidance contained in this manual.



- The tying in pattern should ensure that the uprights of the tower are tied in a minimum of every 4m.
- Ties should be located close to a node. A node is a point where a frame upright, rung, horizontal and diagonal brace meet.
- If it is impracticable to tie the tower in to a suitable adjacent rigid structure, users must contact the manufacturer Lakeside Industries Limited for advice on possible alternative solutions. Tel: +44 1527 500577 or Email: sales@altoaccess.com.
- When used, select and install anchors in concrete and masonry must be selected and installed in accordance with BS 8539.
- This prefabricated tower scaffold has been designed to be properly secured to a suitable adjacent supporting structure capable of withstanding the forces that will be imposed upon it by the attachment of the tower. Devices for securing the tower must be simultaneously rigid in both tension

and compression and capable of withstanding and transmitting the loads imposed by the tower to the supporting structure.

- Scaffold couplers and tubes used for tying in must comply with BS EN 74-1:2005 and BS EN 12811-2:2004 respectively.
- Alto HD towers which are properly tied into an adjacent rigid structure should be able to withstand all but the most extreme UK weather conditions.
- If users consider that alternative methods of stabilisation may be necessary, contact the manufacturer Lakeside Industries Limited for advice on quantities and locations. Tel: +44 1527 500577 or Email: sales@altoaccess.com

## **Unattended Towers**

To prevent use by unauthorised persons of complete or incomplete towers when unattended, steps should be taken to prevent unauthorised access. Appropriate steps may include some or all of the following:

- Use of scaffold alarms.
- Suitable physical means such as barriers or site fencing to prevent access to the area immediately around the tower.
- Warning signs identifying the areas where access is not permitted should be displayed at the access points to area occupied by the tower.
- Attaching a well designed and correctly fitted ladder guard to the lowest levels of the tower.
- Appropriate site security.
- Towers which have been left unattended should be inspected before use as outlined on page 5 above.

# Signage

After assembly or alteration, the following minimum information shall be displayed on the prefabricated tower scaffold and be clearly visible from the ground (e.g. on a tag):

- The name and contact details of the responsible person.
- If the tower is ready for application or not.
- The load class and the uniformly distributed load.
- If the prefabricated tower scaffold is intended for indoors use only.
- The date of assembly.
- The maximum number of simultaneous working platforms permitted.

- The maximum number of persons permitted on the working platform(s) during use.
- The maximum number of persons permitted on the tower during assembly and dismantling.
- The maximum number of persons permitted on any one platform.
- The maximum safe working load on working platforms.
- The maximum safe working load on the prefabricated tower scaffold.
- The load class of the prefabricated tower scaffold.
- The maximum horizontal force permitted at the working platform(s).
- The maximum wind limits for working on the prefabricated tower scaffold.
- The maximum wind limits for the prefabricated tower scaffold.

## **COMPONENT SCHEDULE - 1.8m Long**

## 1.4m Wide HD Stepped Ladderspan Tower

## **DOUBLE WIDTH HD STEPPED TOWER TO BS 1139-6:2022** Using the 3T (Through The Trapdoor) assembly method

			PLATFORM WORKING HEIGHT (m) INTERNAL & EXTERNAL USE			)	
			FREESTANDING OR TIED IN TIED IN ONLY			NONLY	
CODE	PART DESCRIPTION	Wt	3.5	5.5	7.5	9.5	11.5
2233	HD Adj. Swivel Base Jack	2.1	4	4	4	4	4
2066	HD 1.8m D/W Toeboard	9.9	1	1	1	1	1
2002	HD 1.4m Main Frame	10.9	1	2	3	4	5
2213	HD 1.4m 4 Rung Ladder Frame	13.8	1	2	3	4	5
2006	HD 1.4m 3/4 Frame	8.3	1	1	1	1	1
2214	HD 1.4m 3 Rung Ladder Frame	10.3	1	1	1	1	1
2215	HD 1.4m 2 Rung Ladder Frame	6.9	1	1	1	1	1
2040	HD 1.8m Brace	2.6	9	13	17	21	25
2041	HD 2.7m Brace	3.6	2	4	6	8	10
2081	HD 1.8m x 2 Rung Brace (Yellow)	2.9	4	4	4	4	4
2043	HD 1.8m Platform	14.4	1	1	1	1	1
2201	HD 1.8m Trap Platform	15.0	2	3	4	5	6
2056	HD Small Stabiliser	6.0	4	4			
2057	HD Large Stabiliser	7.8			4	4	4
<b>TOTAL SELF WEIGHT OF TOWER (kg)</b> 179 237 301 359 416							
	TOTAL SELF WEIGHT OF TOWER (kg)			237	301	359	416

## **COMPONENT SCHEDULE - 2.7m Long**

## 1.4m Wide HD Stepped Ladderspan Tower

## **DOUBLE WIDTH HD STEPPED TOWER TO BS 1139-6:2022** Using the 3T (Through The Trapdoor) assembly method

			PLATFORM WORKING HEIGHT (m) INTERNAL & EXTERNAL USE				
			FREEST	ANDING OF	NDING OR TIED IN		ONLY
CODE	PART DESCRIPTION	Wt	3.5	5.5	7.5	9.5	11.5
2233	HD Adj. Swivel Base Jack	2.1	4	4	4	4	4
2068	HD 2.7m D/W Toeboard	9.9	1	1	1	1	1
2002	HD 1.4m Main Frame	10.9	1	2	3	4	5
2213	HD 1.4m 4 Rung Ladder Frame	13.8	1	2	3	4	5
2006	HD 1.4m 3/4 Frame	8.3	1	1	1	1	1
2214	HD 1.4m 3 Rung Ladder Frame	10.3	1	1	1	1	1
2215	HD 1.4m 2 Rung Ladder Frame	6.9	1	1	1	1	1
2041	HD 2.7m Brace	3.6	9	13	17	21	25
2042	HD 3.3m Brace	4.4	2	4	6	8	10
2084	HD 2.7m x 2 Rung Brace (Green)	3.9	4	4	4	4	4
2044	HD 2.7m Platform	19.7	1	1	1	1	1
2202	HD 2.7m Trap Platform	20.4	2	3	4	5	6
2056	HD Small Stabiliser	6.0	4	4			
2057	HD Large Stabiliser	7.8			4	4	4
			212			•	
TOTAL SELF WEIGHT OF TOWER (kg)				280	356	424	493

## **ASSEMBLY INSTRUCTIONS - All Platform Working Heights**

#### Step 1

Insert the base jacks into the base of the 3 Rung Base Frame and 3 Rung Ladder Frame. Ensure the springloaded pin is engaged into the hole in the side of the frame uprights.

### Step 2

Position the ladder frame on the lower step. Connect a horizontal brace to the frame upright that is furthest away from the ladder, in the area just above the top rung. Now position the plain frame on the upper step and connect the horizontal brace to the frame upright in the area just above the bottom rung. Ensure the conical head fittings on the top of the frames are pointing inwards to the middle of the tower. Adjust the heights of the 2 frames so the brace is horizontal.

NOTE: the frames may need to be supported until step 5 is complete.





Fit a trap platform to the top rung of the ladder frame & the bottom rung of the main frame. Ensure each of the platform hooks are located next to the 2 screw heads above the ladder and the trapdoor is at the ladder frame end, as shown. Engage the wind latches. The platform keeps the frames parallel to each other, but they may need to be moved left or right to ensure the structure is square, Once squared, use a spirit level on the platform & horizontal rungs of the frames to level the structure.

NOTE: the frames may need to be supported until step 5 is complete.

### Step 4

Install two coloured 2-rung diagonal braces onto the bottom rungs of both frames, as shown. Ensure there is a gap between the frame upright and the brace hook large enough to fit another brace hook in.

Working from the ground, install a 2 rung ladder frame onto the 3 rung ladder frame. Fit a coloured 2-rung diagonal brace to the top rung of the 2 rung ladder frame - on the platform side of the tower - and connect the other end to the bottom rung of the 3 rung main frame on the opposite end of the tower. Ensure this is up against the frame uprights. The hook at the lower end will fit into the gap that was left in Step 4. Now fit a 2nd coloured 2-rung diagonal bracein the opposite direction, on the opposite side of the tower, as shown. If the braces don't fit correctly, the tower is not level. Re-check with a spirit level and adjust accordingly.

#### Step 6

Either working from the stairs or using the 3T method, install 4 horizontal braces to the 2 sets of rungs above the platform in the positions shown.





Install 4 stabilisers to the 4 corners of the tower. Firstly, fix the shorter arm to the lowest part of the frame, then connect the longer arm to the upper part of the framework, ensuring the foot is firmly placed on the ground. Make sure the couplers are fully tightened. Small vertical adjustments up and down can be made to either arm to guarantee a sturdy placement.

### Step 8

Working from the platform, install a 4 rung main frame & a 4 rung ladder frame onto the first set of 5 rung frames. Then, clip 2 standard diagonal braces on. The start position of the brace should be on the same rung height as the finishing position from the brace below - running in the same parallel direction.

Install a trap platform 4 rungs above the previous platform. Engage the wind latches located on the underside of the platform. Now, using the 3T method install 4 horizontal braces as guardrails. At this point, install the appropriate tying in method if specified in the method statement or if building a tower to more than 7.5m.

Refer to the "Tying In" section for more information.



### Step 10

Now, repeat steps 8 and 9 until the required platform working height is achieved. Once the final step 9 is complete, move to step 11.

Remember to install the appropriate tying-in method as required by the specified tying-in pattern once each relevant level is reached.







Working from the guard railed platform, install a plain platform along side the trap platform. Ensure the platform wind latches are engaged.

## Step 12

Using the 3T method, relocate the inner guardrails to the outside face of the tower. Now install a toeboard, ensuring that the sides are hooked securely over the outside edge of both platforms.

## **DISMANTLING INSTRUCTIONS - All Platform Working Heights**

The dismantling procedure is the reverse of the assembly procedure and requires a minimum of 2 operatives to complete the task safely. Particular points which must be followed during the dismantling include the following:

- Only ever disconnect tying-in methods from the highest level of the tower at anyone time immediately prior to removal of that level.
- Do not remove stabilisers from the structure until the dismantling process has removed all frames above the base level.
- Remove the toeboard assembly from all working platform levels before removing that level of the tower.
- NEVER STAND ON AN UNGUARDED PLATFORM.

### Step 1

The dismantling procedure requires a minimum of 2 operatives to complete the task safely. To start, first remove the aluminium toeboard assembly.





### Step 2

Now, relocate the uppermost diagonal brace(s) downwards so the top hook is located on the same rung as the uppermost platform. This can be done by either using one operative on the top platform and one operative on the platform underneath, or by disengaging the top hook then climbing down onto the platform below and disengage the 2nd hook.







Next, remove the 4 guardrails. To remove braces or guardrails, first disconnect each brace at the end furthest away from the platform trap door. Then immediately take up the protected position detailed in the 3T method. Whilst standing through the trapdoor as per the 3T method, disconnect the braces completely.

## Step 4

Now, working from the platform below, the upper platform(s) can be removed. Once these are fully removed, the recently relocated diagonal brace(s) can now be taken off. This can be done by one operative from the platform.

## Step 5

Remove the final 2 frames off the top of the tower.

Now repeat steps 2 to 5 until the tower is dismantled or the new platform height is achieved.

## Components



2233 Swivel Base Jack



**2002** 1.4m Main Frame



2006 1.4m 3/4 Frame



2213 1.4m 4 Rung Ladder Frame



2214 1.4m 3 Rung Ladder Frame



2215 1.4m 2 Rung Ladder Frame



2040 1.8m Brace



2041 2.7m Brace







2081 1.8m x 2 Rung Brace (Yellow)



2084 2.7m x 2 Rung Brace (Green)



2043 1.8m Plain Platform



2201 1.8m Trap Platform



2044 2.7m Plain Platform



2202 2.7m Trap Platform



2066 1.8m D/W Toeboard



2068 2.7m D/W Toeboard



2056 Small Stabiliser2057 Large Stabiliser



For more information regarding our range of access products and services, please get in touch with us:

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System













Manufacturing Member

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